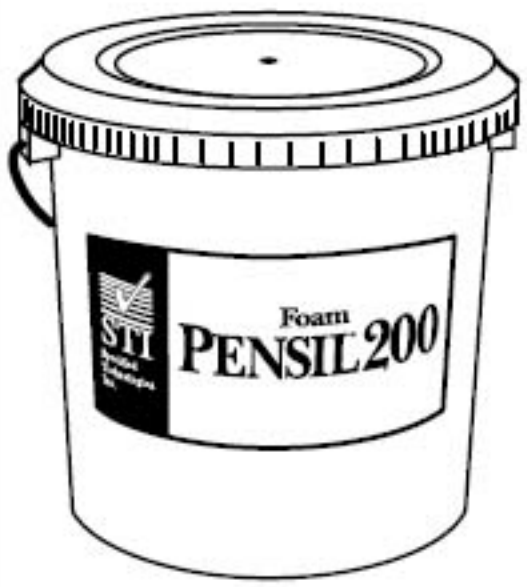
Specified Technologies, Inc.

PRODUCT DATA SHEET

PEN200 Silicone Foam



FILL, VOID OR CAVITY MATERIALS
CLASSIFIED BY UNDERWRITERS
LABORATORIES INC. ®
FOR USE IN JOINTS SYSTEMS &
THROUGH PENETRATION
FIRESTOP SYSTEMS

SEE UL FIRE RESISTANCE DIRECTORY

FEATURES

- **High Resilience**
  allows movement due to expansion, contraction, or vibration.
- **Excellent Water Resistance**
  for water-tight sealing.
- **Soft Setting Foam**
  for easy retrofitting of cables.
- **Uniform Cell Structure**
  ensures reproducible results every time. No charts to check!
- **Excellent Adhesion**
  to most building substrates.
- **Excellent Smoke Seal**

1. PRODUCT DESCRIPTION

Pensil® 200 Firestop Foam (PEN200) is a two-component RTV silicone foam that features excellent crack-and-void filling capabilities. Unlike other foams, PEN200 exhibits uniform cell structure, assuring reproducible, smoke-tight, fire resistant installations. Minimal pressure during foaming virtually eliminates shrinkage of the cured material. The elastic properties of the foam readily accommodate minor vibration of the pipe, conduit, etc. without loss of system integrity. Used in a 1:1 mix ratio, PEN200, when properly mixed, expands to approximately 4 times its original volume, filling available spaces and forming an effective barrier against fire, smoke and water penetration.

2. APPLICATIONS

PEN200 has been tested as a seal for both floor and wall penetrations against the passage of fire, smoke or other hot gases. PEN200 is applied in liquid form and then foams in place, readily sealing around penetrating items such as conduits, cables, duct work or mechanical piping.

PEN200 may also be useful in sealing areas such as control rooms against infiltration of airborne contaminants such as coal dust, dirt, etc. The physical properties of PEN200 also make it an ideal product for use as a thermal or acoustical insulation, or for vibration dampening.

PEN200 is ideally suited for medium to large penetrations involving noncombustible penetrants, cable trays, or electrical, data, or telephone cables.

3. PHYSICAL PROPERTIES

See Table A.

4. PERFORMANCE

PEN200 is the basis for systems that meet the exacting criteria of ASTM E814 (UL1479) as well as to the time-temperature requirements of ASTM E119 (UL263). Systems have been tested primarily for concrete or masonry construction with ratings up to 3 hours.

STI firestop systems are designed to maximize the fire resistance of the seal by not only sealing off the spread of fire and hot gasses but also by minimizing the amount of heat conducted through the assembly. Thus all systems have been designed to provide T Ratings capable of matching the rating of the wall or floor assembly (where possible) when tested without penetrants.

5. SPECIFICATIONS

See below.

6. INSTALLATION INSTRUCTIONS

GENERAL: Areas to be protected must be clean and free of oil, loose dirt, rust or scale. Installation temperatures must be between 50°F and 90°F (10°C and 32°C).

PRIMING: Adhesion to concrete or masonry surfaces is generally very good. Bond breaking contaminants must be removed using mechanical abrasion or solvent cleaning as required. Adhesion to difficult substrates may be improved with the use of SS4155 primer.

SYSTEM SELECTION: Space limitations preclude highly detailed information pertaining to individual application systems. Please consult the STI Product and Application Guide as well as the UL® Fire Resistance Directory for additional information.

FORMING: PEN200 is installed as a liquid fill, therefore, forming or damming is required. In some systems, forming materials may contribute to the fire-resistance rating of the system and must be

5. SPECIFICATIONS

The firestopping product shall be a two-part, silicone, room temperature curing foam. The foam shall be completely water resistant and shall contain no solvents nor inorganic fibers of any kind. The through-penetration firestop foam shall be UL Classified and tested to the requirements of ASTM E814 (UL1479).

SPECIFIED DIVISIONS

DIV.	7	07840	Through-Penetration Firestopping
DIV.	13	13900	Special Construction Fire Suppression & Supervisory Systems
DIV.	15	15250	Mechanical Insulation – Fire Protection
DIV.	16	16050	Basic Electrical Materials & Methods